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(54) Title: **RANBP2 AS MODIFIER OF THE PTEN/IGF PATHWAY AND METHODS OF USE**

(57) Abstract: Human RANBP2 genes are identified as modulators of the PTEN/IGF pathway, and thus are therapeutic targets for disorders associated with defective PTEN/IGF function. Methods for identifying modulators of PTEN/IGF, comprising screening for agents that modulate the activity of RANBP2 are provided.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 33/53 US CL : 435/7.1 According to International Patent Classification (IPC) or to both national classification and IPC														
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/7.1 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, Dialog														
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>SEEWALD, M.J. et al. Biochemical Characterization of the Ran-RanBP1-RanGAP System: Are RanBP Proteins and the Acidic Tail of RanGAP Required for the Ran-RanGAP GTPase Reaction? <i>Molecular and Cellular Biology</i>, November, 2003, Vol. 23, No. 22, pages 8124-8136.</td> <td>1-25</td> </tr> <tr> <td>A</td> <td>VAZQUEZ, F. et al. Phosphorylation of the PTEN Tail Regulates Protein Stability and Function. <i>Molecular and Cellular Biology</i>, July 2000, Vol. 20, No. 14, pages 5010-5018.</td> <td>1-25</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	A	SEEWALD, M.J. et al. Biochemical Characterization of the Ran-RanBP1-RanGAP System: Are RanBP Proteins and the Acidic Tail of RanGAP Required for the Ran-RanGAP GTPase Reaction? <i>Molecular and Cellular Biology</i> , November, 2003, Vol. 23, No. 22, pages 8124-8136.	1-25	A	VAZQUEZ, F. et al. Phosphorylation of the PTEN Tail Regulates Protein Stability and Function. <i>Molecular and Cellular Biology</i> , July 2000, Vol. 20, No. 14, pages 5010-5018.	1-25			
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